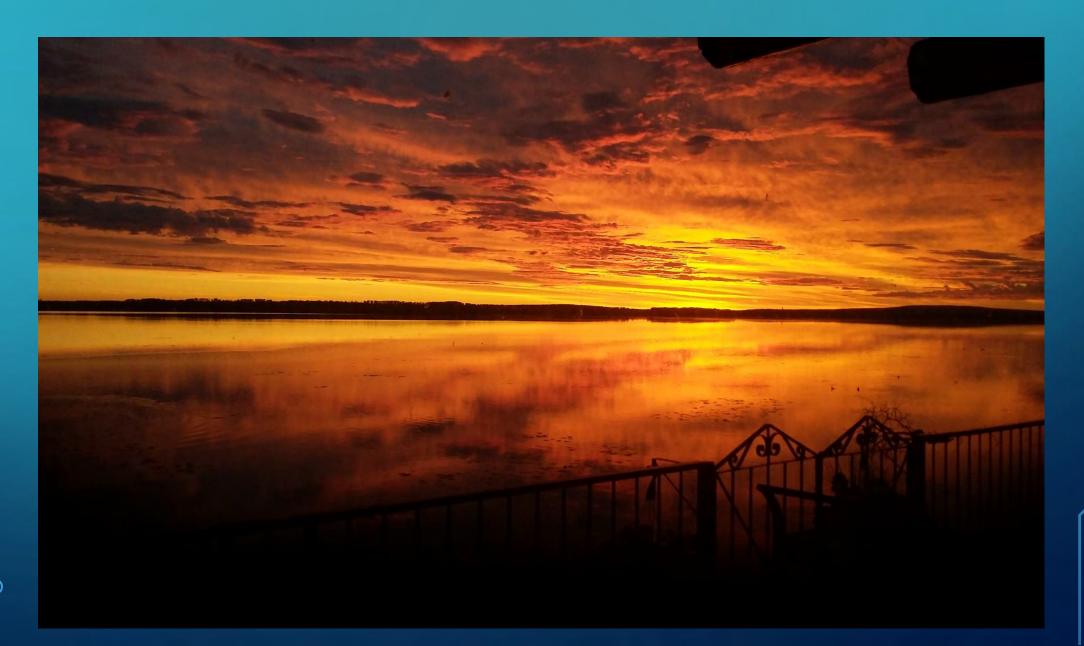
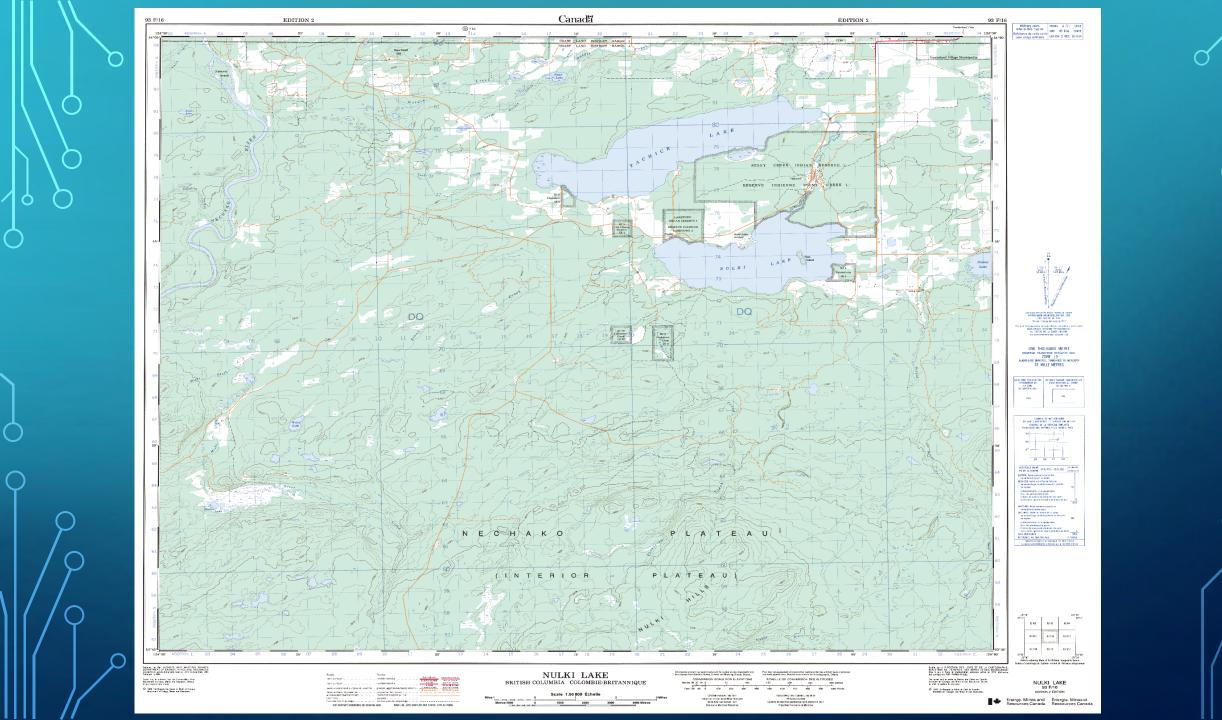


NULKI-TACHICK LAKES STEWARDSHIP SOCIETY INITIATIVE

SUNRISE JUNE 2018





The Angler's Atlas

NULKI LAKE

VANDERHOOF SERIES

C Anglers Atlas, 2002

Sold of the Holes

Summary of Lake

 Surface area:
 1,657 Hectares
 (4,094 Acres)

 Mean depth:
 4.4 metres
 (14 feet)

 Maximum depth:
 7.6 metres
 (25 feet)

 Elevation:
 720 metres
 (2,362 feet)

ACCESS MAP

Our atlas also contains an access map to Nulki Lake.To get this map, visit the web site and peruse the Vanderhoof map series.





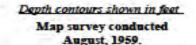
Fish Stocking Data

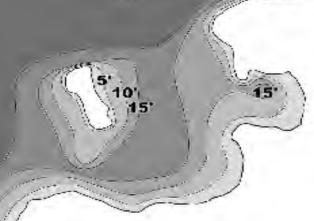
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Fish Species Capused during surveys.

sport fish	non-sport fish
Kokanee	Bridgelip Sucker
Mountain Whitefish	Largescale Sucker
Rainbow Trout	Longnose Sucker
	Northern Squawfish
	Peamouth Chub
	Prickly Sculpin
	Dadaida Chinas

Fish data collected in 1953, 1959 & 1968. Please note that list may not show all species present in lake





The Angler's Atlas server is hosted by Borealis Internet and beinterior.com

20"

Nulki Lake depth chart, published May, 2002.

2000

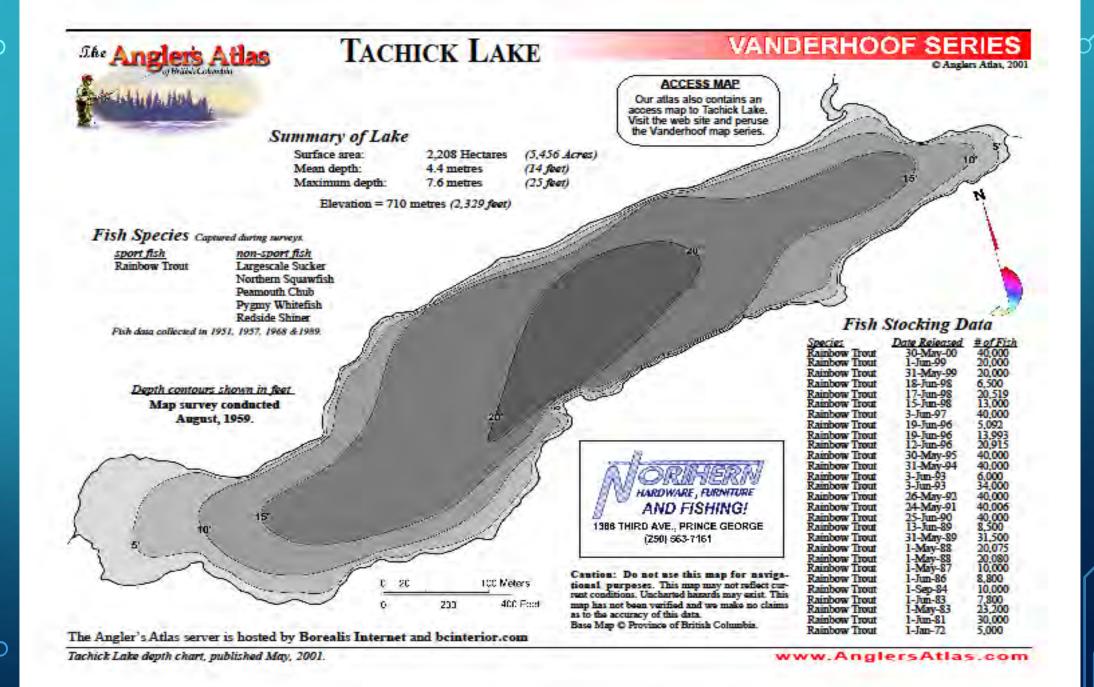
1000 Meters

4000 Feet

200

www.AnglersAtlas.com

Caution: Do not use this map for navigational purposes. This map may not reflect current conditions. Uncharted hazards may exist. This map has not been verified and we make no claims as to the accuracy of this data. Base Map C Province of British Columbia



BACKGROUND

- Over the past 80 years, the Nechako Plateau has experienced significant development
- Building of the Kenny Dam and multiple roads led to increased access, timber harvesting, farming, ranching, and mining. Draining of wetlands and destruction of riparian areas occurred in lakes and streams. Clearing of land to build homesites with septic fields increased exponentially on both lakes.
- Impacts of these activities has led to decreased water quality, accelerated macrophyte and algae growth, including dangerously toxic cyanobacteria. Heavy weed and algae growth impedes lake access to safely launch boats, and over time, causes damage to marine engines.
- Depleted lake oxygen levels and increased cyanobacteria have impacted the health of aquatic species, killing both fish and mollusks and even caused the death of cattle from drinking the water.

NTLSS INITIATIVE GOALS - PHASE ONE

Completion of a Macrophyte Harvest Feasibility Study to achieve:

- Approvals and permissions from Saik'uz First Nations and Government permitting agencies
- A reduction in phosphorus fed macrophyte growth, via controlled harvesting, while respecting the areas of seasonal activity, such as spawning grounds and migratory bird habitat
- Control of blue-green algae (cyanobacteria)
- Advocacy for inclusive water use planning with clarification of the difference between "harvesting" and "removal" of macrophytes
- Development of an ongoing evaluation strategy

ALGAE GROWTH MIDDLE OF LAKE



CYANOBACTERIA ROLLING IN WITH WAVE ACTION



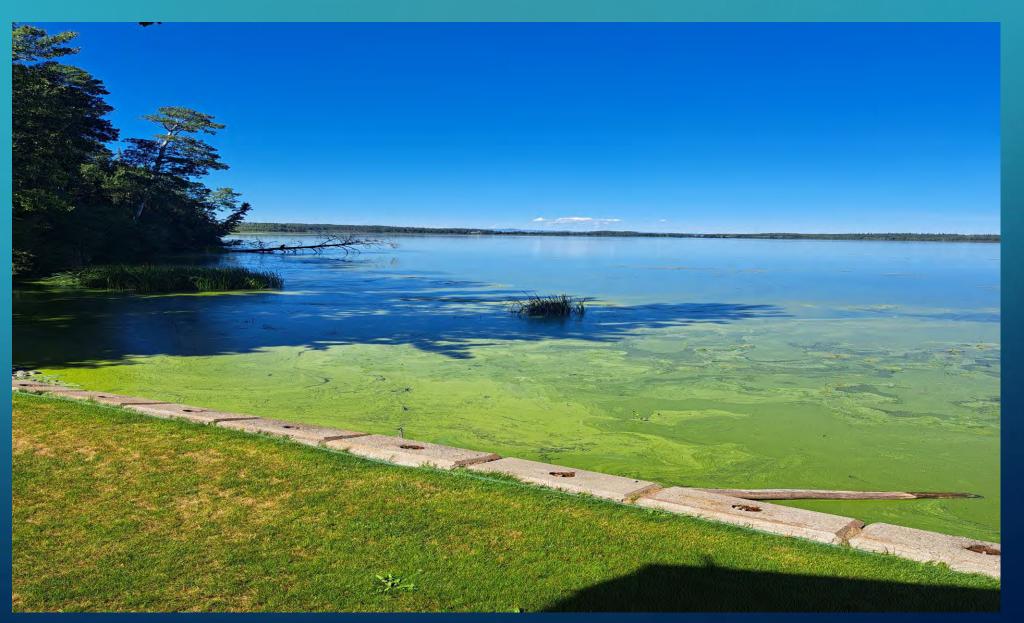
CYANOBACTERIA ON THE SHORELINE



CYANOBACTERIA IN THE WEEDS



SHORELINE VIEW OF EARLY FORMING MASS



SHORELINE IN FRONT OF HOME WITH ODOUR



ALGAE MASS CREATES ENGINE PROBLEMS!



MACROPHYTE HARVEST FIELD STUDY AUGUST 2023 EDI WITH THE SUPPORT OF SAIK'UZ FIRST NATIONS







Ray Klingspolar, NTISS

From:

Jerry Grant

Date:

October 20, 2023

Project No:

22P0125

Re:

Nulki-Tachick Lakes Macrophyte Harvesting Feasibility Study Project Update

The following table indicates the progress toward completion of the Nulki Tachick Lakes Macrophyte Harvesting Feasibility Study as of October 20, 2023.

Phase		Task Completed		To da
1,	Formalizing agreements and assessing support	Reach out to Saik'uz FN and assess support.	Support of Salk'uz, SERN he and UFFCA has been confirmed	Obtain permission to use UFCCA data from Saik'uz Nation
2.	Field assessments and elemental composition of dominant macrophyte species	Solidify methodology of macrophyte sampling	General study plan was designed ArtGIS field maps were generated by EDI GIS team Plant sampling methodology was determined	N/Å
		Perform sampling	Field work was completed August 28-September 1	N/A
		Lab Analysis	44 Macrophyte samples were submitted to ALS labs for analyses	Laboratory results expected November 3, 2023
		Data entry	Field data has been documented on field cards	Enter field data into sprearishous for analysis



3.	Macrophyte harvesting program	Macrophyte and nutrient removal estimation	Working with EDI GIS ream to model macrophyse harvest results	Complete harvest modeling exercise Discuss macrophyte disposal with RDBN, Sala'uz Nation, etc.		
	feasibility study	Determine macrophyte disposal options	Literature review complete Consulted with Tabor Lake Cleanup Society			
		Provide lake monitoring plan recommendations	Discussed using existing VLMP data plus Secchi depth	Complete ongoing monitoring plan		
		Literature review	Literature review complete	N/A		
4.	Regulatory pennitting support	Facilitate permitting process	FLNRORD has been consulted regarding permitting process.	Continue to discuss permitting requirements with regulators		
			Preparing memo for DFO on Fisheries Ac Authorization			

Following is the rencline to complete the project

PHASE 2 (Nulki-Tackick Lakes Field Assessments)		May	Jun	Jul	Aug	Sep	Oct	Nov
					X			
PHASE 3 (Macrophyte Harvesting Program Feasibility Study Including Recommendations for Program Evaluation)		x	x	x	x	x	х	8
PHASE 4 (Regulatory Permitting Support)		x	x	x	x	x	x	х*

^{*} Commune as necessary

NTLSS INITIATIVE GOALS — PHASE TWO

Continued collaboration with Saik'uz First Nation and, Ministry of Environment Aquatic Stewardship and Climate Change Strategy to:

- Reach consensus on effective and efficient harvesting equipment
- Secure annualized funding through advocacy with potential funders
- Decide on collection points, disposal and recycling of harvested materials
- Explore alternative strategies for phosphorus reduction, such as a trial use of zeolites/clay cairns at inflows to both lakes